

Message

From: Barrios, Juan D [Juan.D.Barrios@wv.gov]
Sent: 6/5/2018 2:44:46 PM
To: Bleiler, Justin [Bleiler.Justin@epa.gov]
CC: Jason.S.McDougal_wv.gov [Jason.S.McDougal@wv.gov]
Subject: RE: Needleseye
Attachments: Needleseye.cpg; Needleseye.dbf; Needleseye.pdf; Needleseye.prj; Needleseye.sbn; Needleseye.sbx; Needleseye.shp; Needleseye.shp.P20DLRKYW25937.17608.9576.sr.lock; Needleseye.shp.xml; Needleseye.shx; WVDEP_Sample_Location.cpg; WVDEP_Sample_Location.dbf; WVDEP_Sample_Location.prj; WVDEP_Sample_Location.sbn; WVDEP_Sample_Location.sbx; WVDEP_Sample_Location.shp; WVDEP_Sample_Location.shp.P20DLRKYW25937.17608.9576.sr.lock; WVDEP_Sample_Location.shp.xml; WVDEP_Sample_Location.shx

Justin,

Per your request, I have attached two shapefiles:

1. Needleseye.shp
2. WVDEP_Sample_Location.shp

The shapefiles have the following specifications:

Projected Coordinate System: NAD_1983_UTM_Zone_17N
Projection: Transverse_Mercator
False_Easting: 500000.00000000
False_Northing: 0.00000000
Central_Meridian: -81.00000000
Scale_Factor: 0.99960000
Latitude_Of_Origin: 0.00000000
Linear Unit: Meter

Geographic Coordinate System: GCS_North_American_1983
Datum: D_North_American_1983
Prime Meridian: Greenwich
Angular Unit: Degree

Comments to your answers:

- We intend to collect two sediment samples at each portal.
I suggest sampling the drainages, the portals are very narrow entries to mines.
- I used randomly generated points, but I moved them closer to the features from a modified LiDAR highlighting features. I added two points, one for the bottom of Needleseye and the other for Five Hump.

We only have one point for Five Hump, we may need to add another sample there.

Let me know if you have questions or issues with the shapefiles

Regards,

Juan de Dios Barrios, Ph.D., GISP.

Technical Analyst Associate
West Virginia Department Environmental Protection
Division Land Restoration
601 57th Street, SE
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(304) 926-0499, Ext. 1267
E-mail: juan.d.barrios@wv.gov

From: Bleiler, Justin <Bleiler.Justin@epa.gov>
Sent: Monday, June 4, 2018 2:51 PM
To: Barrios, Juan D <Juan.D.Barrios@wv.gov>
Cc: McDougal, Jason S <Jason.S.McDougal@wv.gov>
Subject: RE: Needleseye

Juan,

Here are answers to your questions:

- Please provide GPS data in a shape file along with the coordinate system.
- We intend to collect two sediment samples at each portal.
- As far as sampling methodology, we would collect sediment samples in a similar fashion to those we collected in Arbuckle. Unless conditions at the portal require a different sampling method, which we would determine while we're out there.
- I think your LiDAR suggestion makes sense. Could you do that and make recommendations for where we could collect ~5 samples in the slate dump area?

Thanks!

Justin Bleiler
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From: Barrios, Juan D [<mailto:Juan.D.Barrios@wv.gov>]
Sent: Monday, June 04, 2018 12:44 PM
To: Bleiler, Justin <Bleiler.Justin@epa.gov>
Cc: Jason.S.McDougal_wv.gov <Jason.S.McDougal@wv.gov>
Subject: RE: Needleseye

Hi Justin,

Last Thursday a manager for AML and I went for a site inspection in Minden. We found two portals on the Berwyn Land Co property. We have marked the locations for two sediments samples (total 4 possible samples). Also, we visited the house with the mudslide. How do you want the locations identified for you – latitude & longitude or shapefile?

Regarding Needles eye I have two basic questions:

1. How many samples do you plan to take? and
2. How do you plan to sample?

The Needles Eye location is approximately 3.5 acres. I suggest the use of the LiDAR for feature extraction, for the other area of Needles Eye to use a grid or randomly generated locations, kind of a hybrid model.

I have most of the work done for the sample location, please let me know what you want me to do.

Regards,

Juan de Dios Barrios, Ph.D., GISP.

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From: Bleiler, Justin <Bleiler.Justin@epa.gov>
Sent: Monday, June 4, 2018 11:58 AM
To: Barrios, Juan D <Juan.D.Barrios@wv.gov>
Cc: McDougal, Jason S <Jason.S.McDougal@wv.gov>
Subject: Needleseye

Hi Juan,

I hope you've been well. Have you had the chance to talk to the AML program and nail down the locations of the Needleseye mine portals?

Thanks,

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